

Annual Subject Index (1992)

Acetylcholine receptor

Frémont PH, Crossin F, Renaud D, Fonaine-Pérus J
In vitro regulation of the innervation pattern of quail muscle fibres by quail and mouse neurons, 49:17–26

Acetylcholinesterase

Frémont PH, Crossin F, Renaud D, Fonaine-Pérus J
In vitro regulation of the innervation pattern of quail muscle fibres by quail and mouse neurons, 49:17–26

Acrosome

Escalier D, Bermúdez D, Gallo J-M, Viellefond A, Schrével J
Cytoplasmic events in human meiotic arrest as revealed by immunolabelling of spermatocyte proacrosin, 51:233–243

Actin evolution

Pascolini R, Di Rosa I, Fagotti A, Panara F, Gabbiani G
The mammalian anti- α -smooth muscle actin monoclonal antibody recognizes an α -actin-like protein in planaria (*Dugesia lugubris* s.l.), 51:177–186

Actin isoforms

Bochaton-Piallat ML, Gabbiani F, Ropraz P, Gabbiani G
Cultured aortic smooth muscle cells from newborn and adult rats show distinct cytoskeletal features, 49:175–185

Pascolini R, Di Rosa I, Fagotti A, Panara F, Gabbiani G
The mammalian anti- α -smooth muscle actin monoclonal antibody recognizes an α -actin-like protein in planaria (*Dugesia lugubris* s.l.), 51:177–186

Actins

Alexander S, Sydow LM, Wessels D, Soll DR
Discoidin proteins of *Dictyostelium* are necessary for normal cytoskeletal organization and cellular morphology during aggregation, 51:149–161

Pascolini R, Di Rosa I, Fagotti A, Panara F, Gabbiani G
The mammalian anti- α -smooth muscle actin monoclonal antibody recognizes an α -actin-like protein in planaria (*Dugesia lugubris* s.l.), 51:177–186

Wiens DJ, Mann K, Fedderson DE, Kimryn Rathmell W, Franck BH

Early heart development in the chick embryo: effects of isotretinoin on cell proliferation, α -actin synthesis, and development of contractions, 51:105–112

Acute phase proteins

Glibetić M, Bogojević D, Matić S, Sevaljević L
The expression of liver acute-phase protein genes during rat development and in response to inflammation of the dam, 50:35–40

Acute phase reaction

Glibetić M, Bogojević D, Matić S, Sevaljević L
The expression of liver acute-phase protein genes during rat development and in response to inflammation of the dam, 50:35–40

Adenocarcinoma

East JA, Langdon SP, Stuart KM, Hickman JA
The influence of type I collagen on the growth and differentiation of the human colonic adenocarcinoma cell line HT-29 in vitro, 50:179–188

Adipogenesis

Ueo H, Bury MA, Bruce SA
Gestation stage-specific frequency of adipogenic cells in Syrian hamster cell cultures, 51:113–119

Aggregation

Vainio S, Thesleff I
Sequential induction of syndecan, tenascin and cell proliferation associated with mesenchymal cell condensation during early tooth development, 50:97–105

Albumin

Wan Y-JY, Wu T-CJ
The effects of retinoic acid on the expression of α -fetoprotein and albumin genes in rat hepatoma cell lines, 50:107–111

Angiogenesis

Brown JG, Papaioannou VE
Distribution of hyaluronan in the mouse endometrium during the periimplantation period of pregnancy, 52:61–68

Kloth S, Meyer D, Röckl W, Miettinen A, Aigner J, Schmidbauer A, Minuth WW
Characterization of an endothelial protein in the developing rabbit kidney, 52:79–88

Antero-posterior patterning

Joly J-S, Maury M, Joly C, Duprey P, Boulekache H, Condamine H

Expression of a zebrafish *caudal* homeobox gene correlates with the establishment of posterior cell lineages at gastrulation, 50:75–87

Apical ectodermal ridge

Coelho CND, Sumoy L, Kosher RA, Upholt WB

GHOx-7: A chicken homeobox-containing gene expressed in a fashion consistent with a role in patterning events during embryonic chick limb development, 49:85-92

Argos

Okano H, Hayashi S, Tanimura T, Sawamoto K, Yoshikawa S, Watanabe J, Iwasaki M, Hirose S, Mikoshiba K, Montell C
Regulation of *Drosophila* neural development by a putative secreted protein, 52:1-11

Ascorbate

Kirsch T, Swoboda B, Mark K von der
Ascorbate independent differentiation of human chondrocytes in vitro: simultaneous expression of types I and X collagen and matrix mineralization, 52:89-100

Atheromatosis

Bochaton-Piallat ML, Gabbiani F, Ropraz P, Gabbiani G
Cultured aortic smooth muscle cells from newborn and adult rats show distinct cytoskeletal features, 49:175-185

ATPase

Chanoine C, Guyot-Lefant M, El Attari A, Saadi A, Gallien C-L
White muscle differentiation in the eel (*Anguilla anguilla* L.): changes in the myosin isoforms pattern and ATPase profile during post-metamorphic development, 49:69-75

Basket cell

Takeda H, Yoshiki A, Nishikawa S-I, Nishikawa S, Kunisada T, Sakakura T, Amanuma H, Kusakabe M
Expression of *c-kit*, a proto-oncogene of the murine *W* locus, in cerebella of normal and neurological mutant mice: Immunohistochemical and *in situ* hybridization analysis, 51:121-127

Beta-2-microglobulin

Palmer DB, McVey JH, Robinson PJJ, Dyson P
The chromatin structure of the mouse beta-2-microglobulin locus, 51:201-207

Bone-marrow cells

Hardy SJ, Haylock DN, Lopez AF, Murray AW
Examination of the role of the proteolytically-activated form of protein kinase C in the differentiation of human haemopoietic cells, 50:189-202

Calcium

Kirsch T, Swoboda B, Mark K von der
Ascorbate independent differentiation of human chondrocytes in vitro: simultaneous expression of types I and X collagen and matrix mineralization, 52:89-100

Suzuki T, Amagai A, Maeda Y
Cyclic AMP and Ca^{2+} as regulators of zygote formation in the cellular slime mold *Dictyostelium mucoroides*, 49:127-132

Calcium-activated neutral protease

Hardy SJ, Haylock DN, Lopez AF, Murray AW
Examination of the role of the proteolytically-activated form of protein kinase C in the differentiation of human haemopoietic cells, 50:189-202

Calpain

Hardy SJ, Haylock DN, Lopez AF, Murray AW
Examination of the role of the proteolytically-activated form of protein kinase C in the differentiation of human haemopoietic cells, 50:189-202

cAMP

Kubohara Y, Okamoto K

Developmental characterization of the wheat germ agglutinin binding proteins, wst31 and wst34, enriched in prestalk and stalk cells of *Dictyostelium discoideum*, 51:163-169

So J-S, Weeks G

The effects of presumptive morphogens on prestalk and prespore cell gene expression in monolayers of *Dictyostelium discoideum*, 51:73-78

Suzuki T, Amagai A, Maeda Y

Cyclic AMP and Ca^{2+} as regulators of zygote formation in the cellular slime mold *Dictyostelium mucoroides*, 49:127-132

Cardiac development (avian)

Wiens DJ, Mann K, Fedderson DE, Kimryn Rathmell W, Franck BH

Early heart development in the chick embryo: effects of isotretinoin on cell proliferation, α -actin synthesis, and development of contractions, 51:105-112

Caudal

Joly J-S, Maury M, Joly C, Duprey P, Boulekache H, Condamine H

Expression of a zebrafish *caudal* homeobox gene correlates with the establishment of posterior cell lineages at gastrulation, 50:75-87

cDNA

Palmer DB, McVey JH, Robinson PJJ, Dyson P

The chromatin structure of the mouse beta-2-microglobulin locus, 51:201-207

cDNA library

Sykes DE, Weiser MM

The identification of genes specifically expressed in epithelial cells of the rat intestinal crypts, 50:41-46

Cell cycle

Akiyama M, Maeda Y

Possible involvements of 101 kDa, 90 kDa, and 32 kDa phosphoproteins in the phase-shift of *Dictyostelium* cells from growth to differentiation, 51:79-90

Cell differentiation

So J-S, Weeks G

The effects of presumptive morphogens on prestalk and prespore cell gene expression in monolayers of *Dictyostelium discoideum*, 51:73-78

Cell interaction

Romancino DP, Ghersi G, Montana G, Bonura A, Perriera S, Di Carlo M

Characterization of *bep1* and *bep4* antigens involved in cell interactions during *Paracentrotus lividus* development, 50:67-74

Cell lineages

Blouin R, Blouin M-J, Royal I, Grenier A, Roop DR, Loranger A, Marceau N

Cytokeratin 14 expression in rat liver cells in culture and localization *in vivo*, 52:45-54

Cell nucleus

Smith A, Benavente R

Identification of a short nuclear lamin protein selectively expressed during meiotic stages of rat spermatogenesis, 52:55-60

Cell shape

Alexander S, Sydow LM, Wessels D, Soll DR

Discoidin proteins of *Dictyostelium* are necessary for normal cytoskeletal organization and cellular morphology during aggregation, 51:149-161

Cell surface proteins

Romancino DP, Ghersi G, Montana G, Bonura A, Perriera S, Di Carlo M

Characterization of bep1 and bep4 antigens involved in cell interactions during *Paracentrotus lividus* development, 50:67-74

Cell surface proteoglycan

Vainio S, Thesleff I

Sequential induction of syndecan, tenascin and cell proliferation associated with mesenchymal cell condensation during early tooth development, 50:97-105

Cell to cell communication

Fromaget C, El Aoumari A, Gros D

Distribution pattern of connexin 43, a gap junctional protein, during the differentiation of mouse heart myocytes, 51:9-20

Cell-fusion proteins

Aiba K, Urushihara H, Yanagisawa K

Fusion-inhibiting monoclonal antibodies and their relevant antigens in relation to sexual process of *Dictyostelium discoideum*, 49:63-68

Cerebellum

Takeda H, Yoshiki A, Nishikawa S-I, Nishikawa S, Kunisada T, Sakakura T, Amanuma H, Kusakabe M

Expression of c-kit, a proto-oncogene of the murine *W* locus, in cerebella of normal and neurological mutant mice: Immunohistochemical and in situ hybridization analysis, 51:121-127

Chick embryo

Coelho CND, Sumoy L, Kosher RA, Upholt WB

GHOx-7: A chicken homeobox-containing gene expressed in a fashion consistent with a role in patterning events during embryonic chick limb development, 49:85-92

Sakai A, Langille RM

Differential and stage dependent effects of retinoic acid on chondrogenesis and synthesis of extracellular matrix macromolecules in chick craniofacial mesenchyme in vitro, 52:19-32

Thierfelder S, Pini S, Harrisson F, Wiegandt H

Immunohistological localisation of monoclonal antibody R 24-recognized ganglioside $G_{1a}2^*$ in early chick embryos, 49:7-15

Wiens DJ, Mann K, Fedderson DE, Kimryn Rathmell W, Franck BH

Early heart development in the chick embryo: effects of isotretinoin on cell proliferation, α -actin synthesis, and development of contractions, 51:105-112

Wu JCY, Smith, MW, Lawson DEM

Time dependency of $1,25(OH)_2D_3$ induction of calbindin mRNA and calbindin expression in chick enterocytes during their differentiation along the crypt-villus axis, 51:195-200

Chondrogenesis

Kirsch T, Swoboda B, Mark K von der

Ascorbate independent differentiation of human chondrocytes in vitro: simultaneous expression of types I and X collagen and matrix mineralization, 52:89-100

Sakai A, Langille RM

Differential and stage dependent effects of retinoic acid on chondrogenesis and synthesis of extracellular matrix macromolecules in chick craniofacial mesenchyme in vitro, 52:19-32

Chondroitin sulfate

Klatt KP, Yang EV, Tassava RA

Monoclonal antibody MT2 identifies an extracellular matrix glycoprotein that is co-localized with tenascin during adult newt limb regeneration, 50:133-140

Choriocarcinoma

Hohn H-P, Parker CR Jr, Boots LR, Denker H-W, Höök M
Modulation of differentiation markers in human choriocarcinoma cells by extracellular matrix: on the role of a three-dimensional matrix structure, 51:61-70

Chromatin

Palmer DB, McVey JH, Robinson PJJ, Dyson P

The chromatin structure of the mouse beta-2-microglobulin locus, 51:201-207

c-jun

Lazowski KW, Mertz PM, Redman RS, Ann DK, Kousvelari E
Reciprocal expression of *c-jun*, proline-rich protein and amylase genes during rat parotid salivary gland development, 51:225-232

c-kit

Takeda H, Yoshiki A, Nishikawa S-I, Nishikawa S, Kunisada T, Sakakura T, Amanuma H, Kusakabe M

Expression of *c-kit*, a proto-oncogene of the murine *W* locus, in cerebella of normal and neurological mutant mice: Immunohistochemical and in situ hybridization analysis, 51:121-127

c-myc

Mitchell LS, Neill RA, Birnie GD

Temporal relationships between induced changes in *c-myc* mRNA abundance, proliferation, and differentiation in HL60 cells, 49:119-125

Collagen type I

Kirsch T, Swoboda B, Mark K von der

Ascorbate independent differentiation of human chondrocytes in vitro: simultaneous expression of types I and X collagen and matrix mineralization, 52:89-100

Collagen type X

Kirsch T, Swoboda B, Mark K von der

Ascorbate independent differentiation of human chondrocytes in vitro: simultaneous expression of types I and X collagen and matrix mineralization, 52:89-100

Collagens

Baloch Z, Klapper J, Buchanan L, Schwartz M, Sebastian Amenta P

Ontogenesis of the murine hepatic extracellular matrix: an immunohistochemical study, 51:209-218

East JA, Langdon SP, Stuart KM, Hickman JA

The influence of type I collagen on the growth and differentiation of the human colonic adenocarcinoma cell line HT-29 in vitro, 50:179-188

Hohn H-P, Parker CR Jr, Boots LR, Denker H-W, Höök M
Modulation of differentiation markers in human choriocarcinoma cells by extracellular matrix: on the role of a three-dimensional matrix structure, 51:61-70

Kirsch T, Swoboda B, Mark K von der

Ascorbate independent differentiation of human chondrocytes in vitro: simultaneous expression of types I and X collagen and matrix mineralization, 52:89-100

Lesot H, Fausser JL, Akiyama SK, Staub A, Black D, Kubler M-D, Ruch JV

The carboxy-terminal extension of the collagen binding domain of fibronectin mediates interaction with a 165 kDa membrane protein involved in odontoblast differentiation, 49:109-118

Colon carcinoma

East JA, Langdon SP, Stuart KM, Hickman JA

The influence of type I collagen on the growth and differentiation of the human colonic adenocarcinoma cell line HT-29 in vitro, 50:179-188

Fabre A, Nakajima M, Bucana CD, Fidler IJ

Modulation of the invasive phenotype of human colon carcinoma cells by organ specific fibroblasts of nude mice, 52:101-110

Colon differentiation

East JA, Langdon SP, Stuart KM, Hickman JA

The influence of type I collagen on the growth and differentiation of the human colonic adenocarcinoma cell line HT-29 in vitro, 50:179-188

Condensation

Vainio S, Thesleff I

Sequential induction of syndecan, tenascin and cell proliferation associated with mesenchymal cell condensation during early tooth development, 50:97-105

Connexin 43

Fromaget C, El Aoumari A, Gros D

Distribution pattern of connexin 43, a gap junctional protein, during the differentiation of mouse heart myocytes, 51:9-20

Contact-sensitivity

Ueo H, Bury MA, Bruce SA

Gestation stage-specific frequency of adipogenic cells in Syrian hamster cell cultures, 51:113-119

Cornified envelope

Kvedar JC, Manabe M, Phillips SB, Ross BS, Baden HP

Characterization of scilin, a precursor to the cornified envelope of human keratinocytes, 49:195-204

Craniofacial morphogenesis

Heath L, Wild A, Thorogood P

Mono-clonal antibodies raised against pre-migratory neural crest reveal population heterogeneity during crest development, 49:151-165

Culture

Bochaton-Piallat ML, Gabbiani F, Ropraz P, Gabbiani G

Cultured aortic smooth muscle cells from newborn and adult rats show distinct cytoskeletal features, 49:175-185

East JA, Langdon SP, Stuart KM, Hickman JA

The influence of type I collagen on the growth and differentiation of the human colonic adenocarcinoma cell line HT-29 in vitro, 50:179-188

Frémont PH, Crossin F, Renaud D, Fonaine-Pérus J

In vitro regulation of the innervation pattern of quail muscle fibres by quail and mouse neurons, 49:17-26

Magnaldo T, Bernerd F, Asselineau D, Darmon M

Expression of loricrin is negatively controlled by retinoic acid in human epidermis reconstructed in vitro, 49:39-46

Sakai A, Langille RM

Differential and stage dependent effects of retinoic acid on chondrogenesis and synthesis of extracellular matrix macromolecules in chick craniofacial mesenchyme in vitro, 52:19-32

Ueo H, Bury MA, Bruce SA

Gestation stage-specific frequency of adipogenic cells in Syrian hamster cell cultures, 51:113-119

Cyclosporin A

Hardy SJ, Haylock DN, Lopez AF, Murray AW

Examination of the role of the proteolytically-activated form of

protein kinase C in the differentiation of human haemopoietic cells, 50:189-202

Cytochrome P-450 aromatase

Desvages G, Pieau C

Time required for temperature-induced changes in gonadal aromatase activity and related gonadal structure in turtle embryos, 52:13-18

Cytokeratins

Blouin R, Blouin M-J, Royal I, Grenier A, Roop DR, Loranger A, Marceau N

Cytokeratin 14 expression in rat liver cells in culture and localization in vivo, 52:45-54

Collin C, Ouhayoun J-P, Grund C, Franke WW

Suprabasal marker proteins distinguishing keratinizing squamous epithelia: Cytokeratin 2 polypeptides of oral masticatory epithelium and epidermis are different, 51:137-148

Fröjdman K, Paranko J, Virtanen I, Pelliniemi LJ

Intermediate filaments and epithelial differentiation of male rat embryonic gonad, 50:113-123

Shimizu-Nishikawa K, Miller L

Hormonal regulation of adult type keratin gene expression in larval epidermal cells of the frog *Xenopus laevis*, 49:77-83

Cytoskeleton

Alexander S, Sydow LM, Wessels D, Soll DR

Discoidin proteins of *Dictyostelium* are necessary for normal cytoskeletal organization and cellular morphology during aggregation, 51:149-161

Snyder RW, Lenburg ME, Seebaum AT, Grabel LB

Disruption of the cytoskeleton-extracellular matrix linkage promotes the accumulation of plasminogen activators in F9 derived parietal endoderm, 50:153-162

Decidualization

Brown JG, Papaioannou VE

Distribution of hyaluronan in the mouse endometrium during the periimplantation period of pregnancy, 52:61-68

Dental epithelium

Mitsiadis TA, Dicou E, Joffre A, Magloire H

Immunohistochemical localization of nerve growth factor (NGF) and NGF receptor (NGF-R) in the developing first molar tooth of the rat, 49:47-61

Desmin

Bochaton-Piallat ML, Gabbiani F, Ropraz P, Gabbiani G

Cultured aortic smooth muscle cells from newborn and adult rats show distinct cytoskeletal features, 49:175-185

Fröjdman K, Paranko J, Virtanen I, Pelliniemi LJ

Intermediate filaments and epithelial differentiation of male rat embryonic gonad, 50:113-123

Desmosomes

Fouquet B, Zimbelmann R, Franke WW

Identification of plakoglobin in oocytes and early embryos of *Xenopus laevis*: maternal expression of a gene encoding a junctional plaque protein, 51:187-194

Dibutyryl cAMP

Safaei R, Prochazka V, Detmer K, Boncinelli E, Lawrence HJ, Largman C

Modulation of HOX2 gene expression following differentiation of neuronal cell lines, 51:39-47

Dictyostelium

Aiba K, Urushihara H, Yanagisawa K

Fusion-inhibiting monoclonal antibodies and their relevant antigens in relation to sexual process of *Dictyostelium discoideum*, 49:63-68

Akiyama M, Maeda Y

Possible involvements of 101 kDa, 90 kDa, and 32 kDa phosphoproteins in the phase-shift of *Dictyostelium* cells from growth to differentiation, 51:79-90

Alexander S, Sydow LM, Wessels D, Soll DR

Discoidin proteins of *Dictyostelium* are necessary for normal cytoskeletal organization and cellular morphology during aggregation, 51:149-161

Gambino M, Kay RR, Bozzaro S

Morphogenesis and differentiation of *Dictyostelium* cells interacting with immobilized glucosides: dependence on DIF production, 49:133-141

Gaskell MJ, Jermyn KA, Watts DJ, Treffry T, Williams JG

Immuno-localization and separation of multiple prestalk cell types in *Dictyostelium*, 51:171-176

Kubohara Y, Okamoto K

Developmental characterization of the wheat germ agglutinin binding proteins, wst31 and wst34, enriched in prestalk and stalk cells of *Dictyostelium discoideum*, 51:163-169

So J-S, Weeks G

The effects of presumptive morphogens on prestalk and prespore cell gene expression in monolayers of *Dictyostelium discoideum*, 51:73-78

Suzuki T, Amagai A, Maeda Y

Cyclic AMP and Ca^{2+} as regulators of zygote formation in the cellular slime mold *Dictyostelium mucoroides*, 49:127-132

Differentiation markers

Hardy SJ, Haylock DN, Lopez AF, Murray AW

Examination of the role of the proteolytically-activated form of protein kinase C in the differentiation of human haemopoietic cells, 50:189-202

Hohn H-P, Parker CR Jr, Boots LR, Denker H-W, Höök M

Modulation of differentiation markers in human choriocarcinoma cells by extracellular matrix: on the role of a three-dimensional matrix structure, 51:61-70

Differentiation Pathways

Pruitt SC, Natoli TA

Inhibition of differentiation by leukemia inhibitory factor distinguishes two induction pathways in P19 embryonal carcinoma cells, 50:57-65

Differentiation-inducing factor (DIF)

Kubohara Y, Okamoto K

Developmental characterization of the wheat germ agglutinin binding proteins, wst31 and wst34, enriched in prestalk and stalk cells of *Dictyostelium discoideum*, 51:163-169

So J-S, Weeks G

The effects of presumptive morphogens on prestalk and prespore cell gene expression in monolayers of *Dictyostelium discoideum*, 51:73-78

Dihydrocytochalasin B

Snyder RW, Lenburg ME, Seebaum AT, Grabel LB

Disruption of the cytoskeleton-extracellular matrix linkage promotes the accumulation of plasminogen activators in F9 derived parietal endoderm, 50:153-162

Dimethylsulfoxide

Pruitt SC, Natoli TA

Inhibition of differentiation by leukemia inhibitory factor distingu-

ishes two induction pathways in P19 embryonal carcinoma cells, 50:57-65

DMD gene transcription

Rapaport D, Lederfein D, Dunn JT den, Grootscholten PM, Van Ommen G-JB, Fuchs O, Nudel U, Yaffe D

Characterization and cell type distribution of a novel, major transcript of the Duchenne Muscular Dystrophy gene, 49:187-193

DMD non-muscle transcript

Rapaport D, Lederfein D, Dunn JT den, Grootscholten PM, Van Ommen G-JB, Fuchs O, Nudel U, Yaffe D

Characterization and cell type distribution of a novel, major transcript of the Duchenne Muscular Dystrophy gene, 49:187-193

DNase hypersensitive site

Palmer DB, McVey JH, Robinson PJJ, Dyson P

The chromatin structure of the mouse beta-2-microglobulin locus, 51:201-207

Double mutants

Kurzik-Dumke U, Phannavong B, Gundacker D, Gateff E

Genetic, cytogenetic and developmental analysis of the *Drosophila melanogaster* tumor suppressor gene *lethal(2)tumorous imaginal discs (l(2)tid)*, 51:91-104

Drosophila

Kurzik-Dumke U, Phannavong B, Gundacker D, Gateff E

Genetic, cytogenetic and developmental analysis of the *Drosophila melanogaster* tumor suppressor gene *lethal(2)tumorous imaginal discs (l(2)tid)*, 51:91-104

Okano H, Hayashi S, Tanimura T, Sawamoto K, Yoshikawa S, Watanabe J, Iwasaki M, Hirose S, Mikoshiba K, Montell C Regulation of *Drosophila* neural development by a putative secreted protein, 52:1-11

Duchenne muscular dystrophy (DMD)

Rapaport D, Lederfein D, Dunn JT den, Grootscholten PM, Van Ommen G-JB, Fuchs O, Nudel U, Yaffe D

Characterization and cell type distribution of a novel, major transcript of the Duchenne Muscular Dystrophy gene, 49:187-193

Dystrophin

Rapaport D, Lederfein D, Dunn JT den, Grootscholten PM, Van Ommen G-JB, Fuchs O, Nudel U, Yaffe D

Characterization and cell type distribution of a novel, major transcript of the Duchenne Muscular Dystrophy gene, 49:187-193

Early embryo differentiation

Doye V, Kellermann O, Buc-Caron M-H, Sobel A

High expression of stathmin in multipotential teratocarcinoma and normal embryonic cells versus their early differentiated derivatives, 50:89-96

Ectopic uteri

Hendry III WJ, Branham WS, Sheehan DM

The hamster cheek pouch as a convenient ectopic site for studies of uterine morphogenesis and endocrine responsiveness, 51:49-54

Eel development

Chanoine C, Guyot-Lefant M, El Attari A, Saadi A, Gallien C-L

White muscle differentiation in the eel (*Anguilla anguilla* L.): changes in the myosin isoforms pattern and ATPase profile during post-metamorphic development, 49:69-75

Embryogenesis (amphibian)

Fouquet B, Zimbelmann R, Franke WW

Identification of plakoglobin in oocytes and early embryos of *Xenopus laevis*: maternal expression of a gene encoding a junctional plaque protein, 51:187-194

- Shimizu-Nishikawa K, Miller L
Hormonal regulation of adult type keratin gene expression in larval epidermal cells of the frog *Xenopus laevis*, 49: 77–83
- Winning RS, Bols NC, Wooden SK, Lee AS, Heikkila JJ
Analysis of the expression of a glucose-regulated protein (GRP78) promoter/CAT fusion gene during early *Xenopus laevis* development, 49: 1–6
- Embryogenesis (avian)**
- Frémont PH, Crossin F, Renaud D, Fonaine-Péris J
In vitro regulation of the innervation pattern of quail muscle fibres by quail and mouse neurons, 49: 17–26
- Heath L, Wild A, Thorogood P
Monoclonal antibodies raised against pre-migratory neural crest reveal population heterogeneity during crest development, 49: 151–165
- Wiens DJ, Mann K, Fedderson DE, Kimryn Rathmell W, Franck BH
Early heart development in the chick embryo: effects of isotretinoin on cell proliferation, α -actin synthesis, and development of contractions, 51: 105–112
- Embryogenesis (horse)**
- Donaldson WL, Oriol JG, Plavin A, Antczak DF
Developmental regulation of class I major histocompatibility complex antigen expression by equine trophoblastic cells, 52: 69–78
- Embryogenesis (rodents)**
- Baloch Z, Klapper J, Buchanan L, Schwartz M, Sebastian Amenta P
Ontogenesis of the murine hepatic extracellular matrix: an immunohistochemical study, 51: 209–218
- Fröjdman K, Paranko J, Virtanen I, Pelliniemi LJ
Intermediate filaments and epithelial differentiation of male rat embryonic gonad, 50: 113–123
- Gehrts AL, Greene RM
Regulation of murine embryonic epithelial cell differentiation by transforming growth factors β , 49: 167–173
- Glibetić M, Bogojević D, Matić S, Sevaljević L
The expression of liver acute-phase protein genes during rat development and in response to inflammation of the dam, 50: 35–40
- Lucas M, Goblet C, Keller A, Lamandé N, Gros F, Whalen RG, Lazar M
Modulation of embryonic and muscle-specific enolase gene products in the developing mouse hindlimb, 51: 1–7
- Mitsiadis TA, Dicou E, Joffre A, Magloire H
Immunohistochemical localization of nerve growth factor (NGF) and NGF receptor (NGF-R) in the developing first molar tooth of the rat, 49: 47–61
- Safaei R, Prochazka V, Detmer K, Boncinelli E, Lawrence HJ, Largman C
Modulation of HOX2 gene expression following differentiation of neuronal cell lines, 51: 39–47
- Slager HG, Good MJ, Schaart G, Groenewoud JS, Mummery CL
Organization of non-muscle myosin during early murine embryonic differentiation, 50: 47–56
- Embryogenesis (sea urchin)**
- Romancino DP, Ghersi G, Montana G, Bonura A, Perriera S, Di Carlo M
Characterization of bep1 and bep4 antigens involved in cell interactions during *Paracentrotus lividus* development, 50: 67–74
- Embryonal carcinoma cells**
- Braunhut SJ, D'Amore PA, Gudas LJ
The location and expression of fibroblast growth factor (FGF) in F9 visceral and parietal embryonic cells after retinoic acid-induced differentiation, 50: 141–152
- Doye V, Kellermann O, Buc-Caron M-H, Sobel A
High expression of stathmin in multipotential teratocarcinoma and normal embryonic cells versus their early differentiated derivatives, 50: 89–96
- Kibbey MC, Mazurkiewicz JE
Transfection of murine P19S18 embryonal carcinoma cells with the oncogene *neu* induces an epithelioid phenotype, 51: 129–135
- Kruyt FAE, Veer LJ van der, Mader S, Brink CE van den, Feijen A, Jonk LJC, Kruijer W, Saag PT van der
Retinoic acid resistance of the variant embryonal carcinoma cell line RAC65 is caused by expression of a truncated RAR α , 49: 27–37
- Pruitt SC, Natoli TA
Inhibition of differentiation by leukemia inhibitory factor distinguishes two induction pathways in P19 embryonal carcinoma cells, 50: 57–65
- Safaei R, Prochazka V, Detmer K, Boncinelli E, Lawrence HJ, Largman C
Modulation of HOX2 gene expression following differentiation of neuronal cell lines, 51: 39–47
- Slager HG, Good MJ, Schaart G, Groenewoud JS, Mummery CL
Organization of non-muscle myosin during early murine embryonic differentiation, 50: 47–56
- Stahl J, Wobus AM, Ihrig S, Lutsch G, Bielka H
The small heat shock protein hsp25 is accumulated in P19 embryonal carcinoma cells and embryonic stem cells of line BLC6 during differentiation, 51: 33–37
- Embryonic stem cells**
- Stahl J, Wobus AM, Ihrig S, Lutsch G, Bielka H
The small heat shock protein hsp25 is accumulated in P19 embryonal carcinoma cells and embryonic stem cells of line BLC6 during differentiation, 51: 33–37
- Endoderm**
- Braunhut SJ, D'Amore PA, Gudas LJ
The location and expression of fibroblast growth factor (FGF) in F9 visceral and parietal embryonic cells after retinoic acid-induced differentiation, 50: 141–152
- Joly J-S, Maury M, Joly C, Duprey P, Boulekbache H, Condamine H
Expression of a zebrafish *caudal* homeobox gene correlates with the establishment of posterior cell lineages at gastrulation, 50: 75–87
- Snyder RW, Lenburg ME, Seebaum AT, Grabel LB
Disruption of the cytoskeleton-extracellular matrix linkage promotes the accumulation of plasminogen activators in F9 derived parietal endoderm, 50: 153–162
- Endothelial Proteins**
- Kloth S, Meyer D, Röckl W, Miettinen A, Aigner J, Schmidbauer A, Minuth WW
Characterization of an endothelial protein in the developing rabbit kidney, 52: 79–88
- Enolase**
- Lucas M, Goblet C, Keller A, Lamandé N, Gros F, Whalen RG, Lazar M
Modulation of embryonic and muscle-specific enolase gene products in the developing mouse hindlimb, 51: 1–7
- Enterocytes differentiation**
- Wu JCY, Smith, MW, Lawson DEM
Time dependency of 1,25(OH) $_2$ D $_3$ induction of calbindin mRNA and calbindin expression in chick enterocytes during their differentiation along the crypt-villus axis, 51: 195–200

Epidermis

- Collin C, Ouhayoun J-P, Grund C, Franke WW
Suprabasal marker proteins distinguishing keratinizing squamous epithelia: Cytokeratin 2 polypeptides of oral masticatory epithelium and epidermis are different, 51:137-148
- Kvedar JC, Manabe M, Phillips SB, Ross BS, Baden HP
Characterization of scielin, a precursor to the cornified envelope of human keratinocytes, 49:195-204
- Magnaldo T, Bernerd F, Asselineau D, Darmon M
Expression of loricrin is negatively controlled by retinoic acid in human epidermis reconstructed in vitro, 49:39-46

Epithelia

- Collin C, Ouhayoun J-P, Grund C, Franke WW
Suprabasal marker proteins distinguishing keratinizing squamous epithelia: Cytokeratin 2 polypeptides of oral masticatory epithelium and epidermis are different, 51:137-148
- Fröjdman K, Paranko J, Virtanen I, Pelliniemi LJ
Intermediate filaments and epithelial differentiation of male rat embryonic gonad, 50:113-123
- Jagiello GM, Mesa-Tejada R, Fang J-S, Ducayen-Knowles MB
Patterns of immunocytochemically detected Z-DNA in the recrudescing testicular epithelium of the Turkish hamster (*Mesocricetus brandti*), 50:125-131
- Kibbey MC, Mazurkiewicz JE
Transfection of murine P19S18 embryonal carcinoma cells with the oncogene *neu* induces an epithelioid phenotype, 51:129-135
- Kvedar JC, Manabe M, Phillips SB, Ross BS, Baden HP
Characterization of scielin, a precursor to the cornified envelope of human keratinocytes, 49:195-204
- Sykes DE, Weiser MM
The identification of genes specifically expressed in epithelial cells of the rat intestinal crypts, 50:41-46
- Tobiasch E, Winter H, Schweizer J
Structural features and sites of expression of a new murine 65 kD and 48 kD hair-related keratin pair, associated with a special type of parakeratotic epithelial differentiation, 50:163-178

Epithelial-mesenchymal interactions

- Boutin EL, Battle E, Cunha GR
The germ layer origin of mouse vaginal epithelium restricts its responsiveness to mesenchymal inducers: uterine induction, 49:101-107
- Gehr AL, Greene RM
Regulation of murine embryonic epithelial cell differentiation by transforming growth factors β , 49:167-173
- Vainio S, Thesleff I
Sequential induction of syndecan, tenascin and cell proliferation associated with mesenchymal cell condensation during early tooth development, 50:97-105

Estrogenic responses

- Hendry III WJ, Branham WS, Sheehan DM
The hamster cheek pouch as a convenient ectopic site for studies of uterine morphogenesis and endocrine responsiveness, 51:49-54

Extracellular matrix

- Baloch Z, Klapper J, Buchanan L, Schwartz M, Sebastian Amenta P
Ontogenesis of the murine hepatic extracellular matrix: an immunohistochemical study, 51:209-218
- Braunhut SJ, D'Amore PA, Gudas LJ
The location and expression of fibroblast growth factor (FGF) in F9 visceral and parietal embryonic cells after retinoic acid-induced differentiation, 50:141-152

Fröjdman K, Paranko J, Virtanen I, Pelliniemi LJ

Intermediate filaments and epithelial differentiation of male rat embryonic gonad, 50:113-123

Gaskell MJ, Jermy KA, Watts DJ, Treffry T, Williams JG
Immuno-localization and separation of multiple prestalk cell types in *Dictyostelium*, 51:171-176

Hohn H-P, Parker CR Jr, Boots LR, Denker H-W, Höök M
Modulation of differentiation markers in human choriocarcinoma cells by extracellular matrix: on the role of a three-dimensional matrix structure, 51:61-70

Klatt KP, Yang EV, Tassava RA

Monoclonal antibody MT2 identifies an extracellular matrix glycoprotein that is co-localized with tenascin during adult newt limb regeneration, 50:133-140

Santamaría JA, Mari-Beffa M, Becerra J

Interactions of the lepidotrichial matrix components during tail fin regeneration in teleosts, 49:143-150

Snyder RW, Lenburg ME, Seebaum AT, Grabel LB

Disruption of the cytoskeleton-extracellular matrix linkage promotes the accumulation of plasminogen activators in F9 derived parietal endoderm, 50:153-162

Eye development

Okano H, Hayashi S, Tanimura T, Sawamoto K, Yoshikawa S, Watanabe J, Iwasaki M, Hirose S, Mikoshiba K, Montell C
Regulation of *Drosophila* neural development by a putative secreted protein, 52:1-11

F9 teratocarcinoma

Snyder RW, Lenburg ME, Seebaum AT, Grabel LB

Disruption of the cytoskeleton-extracellular matrix linkage promotes the accumulation of plasminogen activators in F9 derived parietal endoderm, 50:153-162

Facial development

Dollé P, Price M, Duboule D

Expression of the murine *Dlx-1* homeobox gene during facial, ocular and limb development, 49:93-99

Facial mesenchyme

Sakai A, Langille RM

Differential and stage dependent effects of retinoic acid on chondrogenesis and synthesis of extracellular matrix macromolecules in chick craniofacial mesenchyme in vitro, 52:19-32

Female genital tract (mammalian)

Boutin EL, Battle E, Cunha GR

The germ layer origin of mouse vaginal epithelium restricts its responsiveness to mesenchymal inducers: uterine induction, 49:101-107

α -Fetoprotein

Wan Y-JY, Wu T-CJ

The effects of retinoic acid on the expression of α -fetoprotein and albumin genes in rat hepatoma cell lines, 50:107-111

Fibroblast growth factor

Braunhut SJ, D'Amore PA, Gudas LJ

The location and expression of fibroblast growth factor (FGF) in F9 visceral and parietal embryonic cells after retinoic acid-induced differentiation, 50:141-152

Fibroblasts

Fabre A, Nakajima M, Bucana CD, Fidler IJ

Modulation of the invasive phenotype of human colon carcinoma cells by organ specific fibroblasts of nude mice, 52:101-110

Fibronectin

Baloch Z, Klapper J, Buchanan L, Schwartz M, Sebastian Amenta P

Ontogenesis of the murine hepatic extracellular matrix: an immunohistochemical study, 51:209-218

Lesot H, Fausser JL, Akiyama SK, Staub A, Black D, Kubler M-D, Ruch JV

The carboxy-terminal extension of the collagen binding domain of fibronectin mediates interaction with a 165 kDa membrane protein involved in odontoblast differentiation, 49:109-118

Fibronectin receptor

Lesot H, Fausser JL, Akiyama SK, Staub A, Black D, Kubler M-D, Ruch JV

The carboxy-terminal extension of the collagen binding domain of fibronectin mediates interaction with a 165 kDa membrane protein involved in odontoblast differentiation, 49:109-118

Fibronectin-binding proteins

Lesot H, Fausser JL, Akiyama SK, Staub A, Black D, Kubler M-D, Ruch JV

The carboxy-terminal extension of the collagen binding domain of fibronectin mediates interaction with a 165 kDa membrane protein involved in odontoblast differentiation, 49:109-118

Fusion proteins

Romancino DP, Ghersi G, Montana G, Bonura A, Perriera S, Di Carlo M

Characterization of bep1 and bep4 antigens involved in cell interactions during *Paracentrotus lividus* development, 50:67-74

Ganglioside $G_{\text{Iac}}2$

Thierfelder S, Pini S, Harrisson F, Wiegandt H

Immunohistological localisation of monoclonal antibody R 24-recognized ganglioside $G_{\text{Iac}}2^*$ in early chick embryos, 49:7-15

Gap junctions

Fromaget C, El Aoumari A, Gros D

Distribution pattern of connexin 43, a gap junctional protein, during the differentiation of mouse heart myocytes, 51:9-20

Gastrulation

Joly J-S, Maury M, Joly C, Duprey P, Boulekbache H, Condamine H

Expression of a zebrafish *caudal* homeobox gene correlates with the establishment of posterior cell lineages at gastrulation, 50:75-87

Thierfelder S, Pini S, Harrisson F, Wiegandt H

Immunohistological localisation of monoclonal antibody R 24-recognized ganglioside $G_{\text{Iac}}2^*$ in early chick embryos, 49:7-15

Gene family

Romancino DP, Ghersi G, Montana G, Bonura A, Perriera S, Di Carlo M

Characterization of bep1 and bep4 antigens involved in cell interactions during *Paracentrotus lividus* development, 50:67-74

Gene regulation

Wu T-CJ, Wang L, Wan Y-JY

Retinoic acid regulates gene expression of retinoic acid receptors α, β and γ in F9 mouse teratocarcinoma cells, 51:219-224

Genomic activation

Di Berardino MA, Hoffner Orr N

Genomic potential of erythroid and leukocytic cells of *Rana pipiens* analyzed by nuclear transfer into diplotene and maturing oocytes, 50:1-13

Genomic multipotential

Di Berardino MA, Hoffner Orr N

Genomic potential of erythroid and leukocytic cells of *Rana pipiens* analyzed by nuclear transfer into diplotene and maturing oocytes, 50:1-13

Germ cell differentiation

Bieker JJ, Yazdani-Buicky M

The multiple β -tubulin genes of *Xenopus*: Isolation and developmental expression of a germ-cell isotype β -tubulin gene, 50:15-23

Germ layer restriction

Boutin EL, Battle E, Cunha GR

The germ layer origin of mouse vaginal epithelium restricts its responsiveness to mesenchymal inducers: uterine induction, 49:101-107

Giant lens

Okano H, Hayashi S, Tanimura T, Sawamoto K, Yoshikawa S, Watanabe J, Iwasaki M, Hirose S, Mikoshiba K, Montell C

Regulation of *Drosophila* neural development by a putative secreted protein, 52:1-11

Gliai Cells

Druger RK, Levine EM, Glasgow E, Jones PS, Schechter N

Cloning of a type I keratin from goldfish optic nerve: differential expression of keratins during regeneration, 52:33-43

Glioblastoma cells

Safaei R, Prochazka V, Detmer K, Boncinelli E, Lawrence HJ, Largman C

Modulation of HOX2 gene expression following differentiation of neuronal cell lines, 51:39-47

Glucose-regulated-proteins (GRP)

Winning RS, Bols NC, Wooden SK, Lee AS, Heikkila JJ

Analysis of the expression of a glucose-regulated protein (GRP78) promoter/CAT fusion gene during early *Xenopus laevis* development, 49:1-6

Gonads

Bieker JJ, Yazdani-Buicky M

The multiple β -tubulin genes of *Xenopus*: Isolation and developmental expression of a germ-cell isotype β -tubulin gene, 50:15-23

Desvages G, Pieau C

Time required for temperature-induced changes in gonadal aromatase activity and related gonadal structure in turtle embryos, 52:13-18

Fröjdman K, Paranko J, Virtanen I, Pelliniemi LJ

Intermediate filaments and epithelial differentiation of male rat embryonic gonad, 50:113-123

Granulocytic differentiation

Mitchell LS, Neill RA, Birnie GD

Temporal relationships between induced changes in c-myc mRNA abundance, proliferation, and differentiation in HL60 cells, 49:119-125

Growth factors

Braunhut SJ, D'Amore PA, Gudas LJ

The location and expression of fibroblast growth factor (FGF) in F9 visceral and parietal embryonic cells after retinoic acid-induced differentiation, 50:141-152

Gehrts AL, Greene RM

Regulation of murine embryonic epithelial cell differentiation by transforming growth factors β , 49:167-173

Mitsiadis TA, Dicou E, Joffre A, Magloire H

Immunohistochemical localization of nerve growth factor (NGF) and NGF receptor (NGF-R) in the developing first molar tooth of the rat, 49:47-61

Safaei R, Prochazka V, Detmer K, Boncinelli E, Lawrence HJ, Largman C
Modulation of HOX2 gene expression following differentiation of neuronal cell lines, 51:39-47

Haemopoietic differentiation

Hardy SJ, Haylock DN, Lopez AF, Murray AW
Examination of the role of the proteolytically-activated form of protein kinase C in the differentiation of human haemopoietic cells, 50:189-202

Heart development (avian)

Wiens DJ, Mann K, Fedderson DE, Kimryn Rathmell W, Franck BH
Early heart development in the chick embryo: effects of isotretinoin on cell proliferation, α -actin synthesis, and development of contractions, 51:105-112

Heat shock

Stahl J, Wobus AM, Ihrig S, Lutsch G, Bielka H
The small heat shock protein hsp25 is accumulated in P19 embryonal carcinoma cells and embryonic stem cells of line BLC6 during differentiation, 51:33-37

Heavy chains

Chanoine C, Guyot-Lenfant M, El Attari A, Saadi A, Gallien C-L
White muscle differentiation in the eel (*Anguilla anguilla* L.): changes in the myosin isoforms pattern and ATPase profile during post-metamorphic development, 49:69-75

Hepatogenesis

Baloch Z, Klapper J, Buchanan L, Schwartz M, Sebastian Amenta P
Ontogenesis of the murine hepatic extracellular matrix: an immunohistochemical study, 51:209-218

Hepatomas

Armbuster L, Cavard C, Briand P, Bertolotti R
Selection of variant hepatoma cells in liver-specific growth media: regulation at the mRNA level, 50:25-33
Wan Y-JY, Wu T-CJ
The effects of retinoic acid on the expression of α -fetoprotein and albumin genes in rat hepatoma cell lines, 50:107-111

HepG2

Armbuster L, Cavard C, Briand P, Bertolotti R
Selection of variant hepatoma cells in liver-specific growth media: regulation at the mRNA level, 50:25-33

HL60 cells

Hardy SJ, Haylock DN, Lopez AF, Murray AW
Examination of the role of the proteolytically-activated form of protein kinase C in the differentiation of human haemopoietic cells, 50:189-202
Mitchell LS, Neill RA, Birnie GD
Temporal relationships between induced changes in c-myc mRNA abundance, proliferation, and differentiation in HL60 cells, 49:119-125

Homeobox

Coelho CND, Sumoy L, Kosher RA, Upholt WB
GHox-7: A chicken homeobox-containing gene expressed in a fashion consistent with a role in patterning events during embryonic chick limb development, 49:85-92
Dollé P, Price M, Duboule D
Expression of the murine *Dlx-1* homeobox gene during facial, ocular and limb development, 49:93-99

Joly J-S, Maury M, Joly C, Duprey P, Boulekache H, Condamine H
Expression of a zebrafish *caudal* homeobox gene correlates with the establishment of posterior cell lineages at gastrulation, 50:75-87
Safaei R, Prochazka V, Detmer K, Boncinelli E, Lawrence HJ, Largman C
Modulation of HOX2 gene expression following differentiation of neuronal cell lines, 51:39-47

Homeotic genes

Safaei R, Prochazka V, Detmer K, Boncinelli E, Lawrence HJ, Largman C
Modulation of HOX2 gene expression following differentiation of neuronal cell lines, 51:39-47

Horse

Donaldson WL, Oriol JG, Plavin A, Antczak DF
Developmental regulation of class I major histocompatibility complex antigen expression by equine trophoblastic cells, 52:69-78

Hox-2

Safaei R, Prochazka V, Detmer K, Boncinelli E, Lawrence HJ, Largman C
Modulation of HOX2 gene expression following differentiation of neuronal cell lines, 51:39-47

Hox-7

Coelho CND, Sumoy L, Kosher RA, Upholt WB
GHox-7: A chicken homeobox-containing gene expressed in a fashion consistent with a role in patterning events during embryonic chick limb development, 49:85-92

Human chondrocytes

Kirsch T, Swoboda B, Mark K von der
Ascorbate independent differentiation of human chondrocytes in vitro: simultaneous expression of types I and X collagen and matrix mineralization, 52:89-100

Human fetal pancreas

Carrère J, Figarella-Branger D, Senegas-Balas F, Figarella C, Guy-Crotte O
Immunohistochemical study of secretory proteins in the developing human exocrine pancreas, 51:55-60

Hyaluronan

Brown JG, Papaioannou VE
Distribution of hyaluronan in the mouse endometrium during the periimplantation period of pregnancy, 52:61-68

Imaginal disc development

Kurzik-Dumke U, Phannavong B, Gundacker D, Gateff E
Genetic, cytogenetic and developmental analysis of the *Drosophila melanogaster* tumor suppressor gene *lethal(2) tumorous imaginal discs (l(2)tid)*, 51:91-104

Immunochimistry

Carrère J, Figarella-Branger D, Senegas-Balas F, Figarella C, Guy-Crotte O
Immunohistochemical study of secretory proteins in the developing human exocrine pancreas, 51:55-60

Immunohistolocalization

Thierfelder S, Pini S, Harrisson F, Wiegandt H
Immunohistological localisation of monoclonal antibody R 24-recognized ganglioside $G_{\text{Iac}}2^*$ in early chick embryos, 49:7-15

Implantation

Brown JG, Papaioannou VE
Distribution of hyaluronan in the mouse endometrium during the periimplantation period of pregnancy, 52:61-68

Induction

Boutin EL, Battle E, Cunha GR

The germ layer origin of mouse vaginal epithelium restricts its responsiveness to mesenchymal inducers: uterine induction, 49:101-107

Inner cell mass

Doye V, Kellermann O, Buc-Carpon M-H, Sobel A

High expression of stathmin in multipotential teratocarcinoma and normal embryonic cells versus their early differentiated derivatives, 50:89-96

Innervation pattern

Frémont PH, Crossin F, Renaud D, Fonaine-Péris J

In vitro regulation of the innervation pattern of quail muscle fibres by quail and mouse neurons, 49:17-26

Integrin

Lesot H, Fausser JL, Akiyama SK, Staub A, Black D, Kubler M-D, Ruch JV

The carboxy-terminal extension of the collagen binding domain of fibronectin mediates interaction with a 165 kDa membrane protein involved in odontoblast differentiation, 49:109-118

Snyder RW, Lenburg ME, Seebaum AT, Grabel LB

Disruption of the cytoskeleton-extracellular matrix linkage promotes the accumulation of plasminogen activators in F9 derived parietal endoderm, 50:153-162

Interferon β

Fabra A, Nakajima M, Bucana CD, Fidler IJ

Modulation of the invasive phenotype of human colon carcinoma cells by organ specific fibroblasts of nude mice, 52:101-110

Intermediate filaments

Collin C, Ouahyoun J-P, Grund C, Franke WW

Suprabasal marker proteins distinguishing keratinizing squamous epithelia: Cytokeratin 2 polypeptides of oral masticatory epithelium and epidermis are different, 51:137-148

Intermediate Filaments

Druger RK, Levine EM, Glasgow E, Jones PS, Schechter N

Cloning of a type I keratin from goldfish optic nerve: differential expression of keratins during regeneration, 52:33-43

Fröjdman K, Paranko J, Virtanen I, Pelliniemi LJ

Intermediate filaments and epithelial differentiation of male rat embryonic gonad, 50:113-123

Intestine (rodents)

Sykes DE, Weiser MM

The identification of genes specifically expressed in epithelial cells of the rat intestinal crypts, 50:41-46

Intestine (chick)

Wu JCY, Smith, MW, Lawson DEM

Time dependency of 1,25(OH)₂D₃ induction of calbindin mRNA and calbindin expression in chick enterocytes during their differentiation along the crypt-villus axis, 51:195-200

Invasion

Fabra A, Nakajima M, Bucana CD, Fidler IJ

Modulation of the invasive phenotype of human colon carcinoma cells by organ specific fibroblasts of nude mice, 52:101-110

Invertebrates

Pascolini R, Di Rosa I, Fagotti A, Panara F, Gabbiani G

The mammalian anti- α -smooth muscle actin monoclonal antibody recognizes an α -actin-like protein in planaria (*Dugesia lugubris* s.l.), 51:177-186

jun B

Pruitt SC, Natoli TA

Inhibition of differentiation by leukemia inhibitory factor distinguishes two induction pathways in P19 embryonal carcinoma cells, 50:57-65

Junctions

Fouquet B, Zimbelmann R, Franke WW

Identification of plakoglobin in oocytes and early embryos of *Xenopus laevis*: maternal expression of a gene encoding a junctional plaque protein, 51:187-194

Karyoskeleton

Smith A, Benavente R

Identification of a short nuclear lamin protein selectively expressed during meiotic stages of rat spermatogenesis, 52:55-60

Keratin expression

Tobiasch E, Winter H, Schweizer J

Structural features and sites of expression of a new murine 65 kD and 48 kD hair-related keratin pair, associated with a special type of parakeratotic epithelial differentiation, 50:163-178

Keratinocytes

Collin C, Ouahyoun J-P, Grund C, Franke WW

Suprabasal marker proteins distinguishing keratinizing squamous epithelia: Cytokeratin 2 polypeptides of oral masticatory epithelium and epidermis are different, 51:137-148

Kvedar JC, Manabe M, Phillips SB, Ross BS, Baden HP

Characterization of scillillin, a precursor to the cornified envelope of human keratinocytes, 49:195-204

Magnaldo T, Bernerd F, Asselineau D, Darmon M

Expression of loricrin is negatively controlled by retinoic acid in human epidermis reconstructed in vitro, 49:39-46

Keratins

Druger RK, Levine EM, Glasgow E, Jones PS, Schechter N

Cloning of a type I keratin from goldfish optic nerve: differential expression of keratins during regeneration, 52:33-43

Shimizu-Nishikawa K, Miller L

Hormonal regulation of adult type keratin gene expression in larval epidermal cells of the frog *Xenopus laevis*, 49:77-83

Tobiasch E, Winter H, Schweizer J

Structural features and sites of expression of a new murine 65 kD and 48 kD hair-related keratin pair, associated with a special type of parakeratotic epithelial differentiation, 50:163-178

Kidney Development

Kloth S, Meyer D, Röckl W, Miettinen A, Aigner J, Schmidbauer A, Minuth WW

Characterization of an endothelial protein in the developing rabbit kidney, 52:79-88

Laminin

Baloch Z, Klapper J, Buchanan L, Schwartz M, Sebastian Amenta P

Ontogenesis of the murine hepatic extracellular matrix: an immunohistochemical study, 51:209-218

Fröjdman K, Paranko J, Virtanen I, Pelliniemi LJ

Intermediate filaments and epithelial differentiation of male rat embryonic gonad, 50:113-123

Lectins

Alexander S, Sydow LM, Wessels D, Soll DR

Discoidin proteins of *Dictyostelium* are necessary for normal cytoskeletal organization and cellular morphology during aggregation, 51:149-161

Gambino M, Kay RR, Bozzaro S
Morphogenesis and differentiation of *Dictyostelium* cells interacting with immobilized glucosides: dependence on DIF production, 49:133-141

Leukemia Inhibitory Factor

Pruitt SC, Natoli TA
Inhibition of differentiation by leukemia inhibitory factor distinguishes two induction pathways in P19 embryonal carcinoma cells, 50:57-65

Light chains

Chanoine C, Guyot-Lenfant M, El Attari A, Saadi A, Gallien C-L

White muscle differentiation in the eel (*Anguilla anguilla* L.): changes in the myosin isoforms pattern and ATPase profile during post-metamorphic development, 49:69-75

Limb development (chick)

Coelho CND, Sumoy L, Kosher RA, Upholt WB
GHox-7: A chicken homeobox-containing gene expressed in a fashion consistent with a role in patterning events during embryonic chick limb development, 49:85-92

Limb development (rodents)

Dollé P, Price M, Duboule D
Expression of the murine *Dlx-1* homeobox gene during facial, ocular and limb development, 49:93-99

Limb regeneration

Klatt KP, Yang EV, Tassava RA
Monoclonal antibody MT2 identifies an extracellular matrix glycoprotein that is co-localized with tenascin during adult newt limb regeneration, 50:133-140

Liver epithelial cells

Blouin R, Blouin M-J, Royal I, Grenier A, Roop DR, Loranger A, Marceau N
Cytokeratin 14 expression in rat liver cells in culture and localization in vivo, 52:45-54

Liver-specific growth media

Armbruster L, Cavard C, Briand P, Bertolotti R
Selection of variant hepatoma cells in liver-specific growth media: regulation at the mRNA level, 50:25-33

Loricrin

Magnaldo T, Bernerd F, Asselineau D, Darmon M
Expression of loricrin is negatively controlled by retinoic acid in human epidermis reconstructed in vitro, 49:39-46

Macrocyst

Suzuki T, Amagai A, Maeda Y
Cyclic AMP and Ca^{2+} as regulators of zygote formation in the cellular slime mold *Dictyostelium mucoroides*, 49:127-132

Major Histocompatibility Complex (MHC)

Donaldson WL, Oriol JG, Plavin A, Antczak DF
Developmental regulation of class I major histocompatibility complex antigen expression by equine trophoblastic cells, 52:69-78

Mammalian development (embryogenesis horse)

Donaldson WL, Oriol JG, Plavin A, Antczak DF
Developmental regulation of class I major histocompatibility complex antigen expression by equine trophoblastic cells, 52:69-78

Masticatory epithelia

Collin C, Ouhayoun J-P, Grund C, Franke WW
Suprabasal marker proteins distinguishing keratinizing squamous

epithelia: Cytokeratin 2 polypeptides of oral masticatory epithelium and epidermis are different, 51:137-148

Meiosis

Escalier D, Bermúdez D, Gallo J-M, Viellefond A, Schrével J
Cytoplasmic events in human meiotic arrest as revealed by immunolabelling of spermatocyte proacrosin, 51:233-243

Smith A, Benavente R

Identification of a short nuclear lamin protein selectively expressed during meiotic stages of rat spermatogenesis, 52:55-60

Membrane receptors

Gambino M, Kay RR, Bozzaro S

Morphogenesis and differentiation of *Dictyostelium* cells interacting with immobilized glucosides: dependence on DIF production, 49:133-141

Mental retardation

Rapaport D, Lederfein D, Dunnen JT den, Grootenhuis PM, Van Ommen G-JB, Fuchs O, Nudel U, Yaffe D
Characterization and cell type distribution of a novel, major transcript of the Duchenne Muscular Dystrophy gene, 49:187-193

Mesenchyme

Ueo H, Bury MA, Bruce SA

Gestation stage-specific frequency of adipogenic cells in Syrian hamster cell cultures, 51:113-119

Metamorphosis

Shimizu-Nishikawa K, Miller L

Hormonal regulation of adult type keratin gene expression in larval epidermal cells of the frog *Xenopus laevis*, 49:77-83

MHC (Major Histocompatibility Complex)

Donaldson WL, Oriol JG, Plavin A, Antczak DF
Developmental regulation of class I major histocompatibility complex antigen expression by equine trophoblastic cells, 52:69-78

Microtubules

Alexander S, Sydow LM, Wessels D, Soll DR

Discoidin proteins of *Dictyostelium* are necessary for normal cytoskeletal organization and cellular morphology during aggregation, 51:149-161

Bicker JJ, Yazdani-Buicky M

The multiple β -tubulin genes of *Xenopus*: Isolation and developmental expression of a germ-cell isotype β -tubulin gene, 50:15-23

Mineralization

Kirsch T, Swoboda B, Mark K von der

Ascorbate independent differentiation of human chondrocytes in vitro: simultaneous expression of types I and X collagen and matrix mineralization, 52:89-100

Monoclonal antibodies

Aiba K, Urushihara H, Yanagisawa K

Fusion-inhibiting monoclonal antibodies and their relevant antigens in relation to sexual process of *Dictyostelium discoideum*, 49:63-68

Escalier D, Bermúdez D, Gallo J-M, Viellefond A, Schrével J

Cytoplasmic events in human meiotic arrest as revealed by immunolabelling of spermatocyte proacrosin, 51:233-243

Heath L, Wild A, Thorogood P

Monoclonal antibodies raised against pre-migratory neural crest reveal population heterogeneity during crest development, 49:151-165

Klatt KP, Yang EV, Tassava RA

Monoclonal antibody MT2 identifies an extracellular matrix glycoprotein that is co-localized with tenascin during adult newt limb regeneration, 50:133-140

- Kloth S, Meyer D, Röckl W, Miettinen A, Aigner J, Schmidbauer A, Minuth WW
Characterization of an endothelial protein in the developing rabbit kidney, 52:79-88
- Pascolini R, Di Rosa I, Fagotti A, Panara F, Gabbiani G
The mammalian anti- α -smooth muscle actin monoclonal antibody recognizes an α -actin-like protein in planaria (*Dugesia lugubris* s.l.), 51:177-186
- Thierfelder S, Pini S, Harrisson F, Wiegandt H
Immunohistological localisation of monoclonal antibody R24-recognized ganglioside $G_{\text{Iac}}2^*$ in early chick embryos, 49:7-15
- Monoclonal antibody R24**
- Thierfelder S, Pini S, Harrisson F, Wiegandt H
Immunohistological localisation of monoclonal antibody R24-recognized ganglioside $G_{\text{Iac}}2^*$ in early chick embryos, 49:7-15
- Monocytic differentiation**
- Mitchell LS, Neill RA, Birnie GD
Temporal relationships between induced changes in *c-myc* mRNA abundance, proliferation, and differentiation in HL60 cells, 49:119-125
- Morphogenesis**
- Gambino M, Kay RR, Bozzaro S
Morphogenesis and differentiation of *Dictyostelium* cells interacting with immobilized glucosides: dependence on DIF production, 49:133-141
- Hendry III WJ, Branham WS, Sheehan DM
The hamster cheek pouch as a convenient ectopic site for studies of uterine morphogenesis and endocrine responsiveness, 51:49-54
- Santamaria JA, Mari-Beffa M, Becerra J
Interactions of the lepidotrichial matrix components during tail fin regeneration in teleosts, 49:143-150
- Vainio S, Thesleff I
Sequential induction of syndecan, tenascin and cell proliferation associated with mesenchymal cell condensation during early tooth development, 50:97-105
- Motility**
- Alexander S, Sydow LM, Wessels D, Soll DR
Discoidin proteins of *Dictyostelium* are necessary for normal cytoskeletal organization and cellular morphology during aggregation, 51:149-161
- Müllerian vagina**
- Boutin EL, Battle E, Cunha GR
The germ layer origin of mouse vaginal epithelium restricts its responsiveness to mesenchymal inducers: uterine induction, 49:101-107
- Multiple gene products**
- Rapaport D, Lederfein D, Dunn JT den, Grootscholten PM, Van Ommen G-JB, Fuchs O, Nudel U, Yaffe D
Characterization and cell type distribution of a novel, major transcript of the Duchenne Muscular Dystrophy gene, 49:187-193
- Multiple retardation**
- Rapaport D, Lederfein D, Dunn JT den, Grootscholten PM, Van Ommen G-JB, Fuchs O, Nudel U, Yaffe D
Characterization and cell type distribution of a novel, major transcript of the Duchenne Muscular Dystrophy gene, 49:187-193
- Muscle differentiation**
- Chanoine C, Guyot-Lenfant M, El Attari A, Saadi A, Gallien C-L
White muscle differentiation in the eel (*Anguilla anguilla* L.): changes in the myosin isoforms pattern and ATPase profile during post-metamorphic development, 49:69-75
- Muscle fibres**
- Frémont PH, Crossin F, Renaud D, Fonaine-Pérus J
In vitro regulation of the innervation pattern of quail muscle fibres by quail and mouse neurons, 49:17-26
- Myoblasts**
- Frémont PH, Crossin F, Renaud D, Fonaine-Pérus J
In vitro regulation of the innervation pattern of quail muscle fibres by quail and mouse neurons, 49:17-26
- Myocardium**
- Fromaget C, El Aoumari A, Gros D
Distribution pattern of connexin 43, a gap junctional protein, during the differentiation of mouse heart myocytes, 51:9-20
- Wiens DJ, Mann K, Fedderson DE, Kimryn Rathmell W, Franck BH
Early heart development in the chick embryo: effects of isotretinoin on cell proliferation, α -actin synthesis, and development of contractions, 51:105-112
- Myogenesis**
- Frémont PH, Crossin F, Renaud D, Fonaine-Pérus J
In vitro regulation of the innervation pattern of quail muscle fibres by quail and mouse neurons, 49:17-26
- Lucas M, Goblet C, Keller A, Lamandé N, Gros F, Whalen RG, Lazar M
Modulation of embryonic and muscle-specific enolase gene products in the developing mouse hindlimb, 51:1-7
- Myosin**
- Slager HG, Good MJ, Schaart G, Groenewoud JS, Mummery CL
Organization of non-muscle myosin during early murine embryonic differentiation, 50:47-56
- Myosin isoforms**
- Chanoine C, Guyot-Lenfant M, El Attari A, Saadi A, Gallien C-L
White muscle differentiation in the eel (*Anguilla anguilla* L.): changes in the myosin isoforms pattern and ATPase profile during post-metamorphic development, 49:69-75
- Nerve growth factor**
- Mitsiadis TA, Dicou E, Joffre A, Magloire H
Immunohistochemical localization of nerve growth factor (NGF) and NGF receptor (NGF-R) in the developing first molar tooth of the rat, 49:47-61
- Safaei R, Prochazka V, Detmer K, Boncinelli E, Lawrence HJ, Largman C
Modulation of HOX2 gene expression following differentiation of neuronal cell lines, 51:39-47
- neu*
- Kibbey MC, Mazurkiewicz JE
Transfection of murine P19S18 embryonal carcinoma cells with the oncogene *neu* induces an epithelioid phenotype, 51:129-135
- Neural crest**
- Heath L, Wild A, Thorogood P
Monoclonal antibodies raised against pre-migratory neural crest reveal population heterogeneity during crest development, 49:151-165
- Neuromuscular contacts**
- Frémont PH, Crossin F, Renaud D, Fonaine-Pérus J
In vitro regulation of the innervation pattern of quail muscle fibres by quail and mouse neurons, 49:17-26

Neuronal cell fates

Okano H, Hayashi S, Tanimura T, Sawamoto K, Yoshikawa S, Watanabe J, Iwasaki M, Hirose S, Mikoshiba K, Montell C
Regulation of *Drosophila* neural development by a putative secreted protein, 52:1-11

Neuronal differentiation

Safaei R, Prochazka V, Detmer K, Boncinelli E, Lawrence HJ, Largman C
Modulation of HOX2 gene expression following differentiation of neuronal cell lines, 51:39-47

Neurons

Frémont PH, Crossin F, Renaud D, Fonaine-Pérus J
In vitro regulation of the innervation pattern of quail muscle fibres by quail and mouse neurons, 49:17-26

Neutrophils

Hardy SJ, Haylock DN, Lopez AF, Murray AW
Examination of the role of the proteolytically-activated form of protein kinase C in the differentiation of human haemopoietic cells, 50:189-202

NFG

Mitsiadis TA, Dicou E, Joffre A, Magloire H
Immunohistochemical localization of nerve growth factor (NGF) and NGF receptor (NGF-R) in the developing first molar tooth of the rat, 49:47-61

Safaei R, Prochazka V, Detmer K, Boncinelli E, Lawrence HJ, Largman C
Modulation of HOX2 gene expression following differentiation of neuronal cell lines, 51:39-47

Northern

Armbruster L, Cavard C, Briand P, Bertolotti R
Selection of variant hepatoma cells in liver-specific growth media: regulation at the mRNA level, 50:25-33

Nuclear lamins

Smith A, Benavente R
Identification of a short nuclear lamin protein selectively expressed during meiotic stages of rat spermatogenesis, 52:55-60

Nuclear transfer

Di Berardino MA, Hoffner Orr N
Genomic potential of erythroid and leukocytic cells of *Rana pipiens* analyzed by nuclear transfer into diplotene and maturing oocytes, 50:1-13

Nuclei, erythroid and leukocytic

Di Berardino MA, Hoffner Orr N
Genomic potential of erythroid and leukocytic cells of *Rana pipiens* analyzed by nuclear transfer into diplotene and maturing oocytes, 50:1-13

Odontoblast

Lesot H, Fausser JL, Akiyama SK, Staub A, Black D, Kubler M-D, Ruch JV
The carboxy-terminal extension of the collagen binding domain of fibronectin mediates interaction with a 165 kDa membrane protein involved in odontoblast differentiation, 49:109-118

1,25(OH)₂D₃

Wu JCY, Smith MW, Lawson DEM
Time dependency of 1,25(OH)₂D₃ induction of calbindin mRNA and calbindin expression in chick enterocytes during their differentiation along the crypt-villus axis, 51:195-200

Oncogenes

Kibbey MC, Mazurkiewicz JE
Transfection of murine P19S18 embryonal carcinoma cells with the oncogene *neu* induces an epithelioid phenotype, 51:129-135

Lazowski KW, Mertz PM, Redman RS, Ann DK, Kousvelari E
Reciprocal expression of *c-jun*, proline-rich protein and amylase genes during rat parotid salivary gland development, 51:225-232

Mitchell LS, Neill RA, Birnie GD
Temporal relationships between induced changes in *c-myc* mRNA abundance, proliferation, and differentiation in HL60 cells, 49:119-125

Pruitt SC, Natoli TA

Inhibition of differentiation by leukemia inhibitory factor distinguishes two induction pathways in P19 embryonal carcinoma cells, 50:57-65

Ontogenesis

Fromaget C, El Aoumari A, Gros D
Distribution pattern of connexin 43, a gap junctional protein, during the differentiation of mouse heart myocytes, 51:9-20

Oocytes

Bicker JJ, Yazdani-Buicky M
The multiple β -tubulin genes of *Xenopus*: Isolation and developmental expression of a germ-cell isotype β -tubulin gene, 50:15-23

Di Berardino MA, Hoffner Orr N
Genomic potential of erythroid and leukocytic cells of *Rana pipiens* analyzed by nuclear transfer into diplotene and maturing oocytes, 50:1-13

Fouquet B, Zimbelmann R, Franke WW
Identification of plakoglobin in oocytes and early embryos of *Xenopus laevis*: maternal expression of a gene encoding a junctional plaque protein, 51:187-194

Optic Nerve

Druger RK, Levine EM, Glasgow E, Jones PS, Schechter N
Cloning of a type I keratin from goldfish optic nerve: differential expression of keratins during regeneration, 52:33-43

p18

Schubart UK, Xu J, Fan W, Cheng G, Goldstein H, Alpini G, Shafritz DA, Amat JA, Farooq M, Norton WT, Owen TA, Lian JB, Stein GS

Widespread differentiation stage-specific expression of the gene encoding phosphoprotein p19 (metablastin) in mammalian cells, 51:21-32

p19

Schubart UK, Xu J, Fan W, Cheng G, Goldstein H, Alpini G, Shafritz DA, Amat JA, Farooq M, Norton WT, Owen TA, Lian JB, Stein GS

Widespread differentiation stage-specific expression of the gene encoding phosphoprotein p19 (metablastin) in mammalian cells, 51:21-32

P19 Embryonal Carcinoma Stem Cells

Pruitt SC, Natoli TA
Inhibition of differentiation by leukemia inhibitory factor distinguishes two induction pathways in P19 embryonal carcinoma cells, 50:57-65

Palate

Gehrts AL, Greene RM
Regulation of murine embryonic epithelial cell differentiation by transforming growth factors β , 49:167-173

Parakeratotic differentiation

Tobiasch E, Winter H, Schweizer J

Structural features and sites of expression of a new murine 65 kD and 48 kD hair-related keratin pair, associated with a special type of parakeratotic epithelial differentiation, 50:163-178

Parietal endoderm

Braunhut SJ, D'Amore PA, Gudas LJ

The location and expression of fibroblast growth factor (FGF) in F9 visceral and parietal embryonic cells after retinoic acid-induced differentiation, 50:141-152

Parotid secretory proteins

Lazowski KW, Mertz PM, Redman RS, Ann DK, Kousvelari E
Reciprocal expression of *c-jun*, proline-rich protein and amylase genes during rat parotid salivary gland development, 51:225-232

Particulate translocation

Hardy SJ, Haylock DN, Lopez AF, Murray AW

Examination of the role of the proteolytically-activated form of protein kinase C in the differentiation of human haemopoietic cells, 50:189-202

Pattern formation

Coelho CND, Sumoy L, Kosher RA, Upholt WB

GHOx-7: A chicken homeobox-containing gene expressed in a fashion consistent with a role in patterning events during embryonic chick limb development, 49:85-92

Phagocytosis

Gambino M, Kay RR, Bozzaro S

Morphogenesis and differentiation of *Dictyostelium* cells interacting with immobilized glucosides: dependence on DIF production, 49:133-141

Phorbol ester

Hardy SJ, Haylock DN, Lopez AF, Murray AW

Examination of the role of the proteolytically-activated form of protein kinase C in the differentiation of human haemopoietic cells, 50:189-202

Phosphatase

Hohn H-P, Parker CR Jr, Boots LR, Denker H-W, Höök M

Modulation of differentiation markers in human choriocarcinoma cells by extracellular matrix: on the role of a three-dimensional matrix structure, 51:61-70

Phosphatase inhibitor

Akiyama M, Maeda Y

Possible involvements of 101 kDa, 90 kDa, and 32 kDa phosphoproteins in the phase-shift of *Dictyostelium* cells from growth to differentiation, 51:79-90

Phosphoproteins

Akiyama M, Maeda Y

Possible involvements of 101 kDa, 90 kDa, and 32 kDa phosphoproteins in the phase-shift of *Dictyostelium* cells from growth to differentiation, 51:79-90

Schubart UK, Xu J, Fan W, Cheng G, Goldstein H, Alpini G, Shafritz DA, Amat JA, Farooq M, Norton WT, Owen TA, Lian JB, Stein GS

Widespread differentiation stage-specific expression of the gene encoding phosphoprotein p19 (metablastin) in mammalian cells, 51:21-32

Placentation

Brown JG, Papaioannou VE

Distribution of hyaluronan in the mouse endometrium during the periimplantation period of pregnancy, 52:61-68

Plakoglobin

Fouquet B, Zimbelmann R, Franke WW

Identification of plakoglobin in oocytes and early embryos of *Xenopus laevis*: maternal expression of a gene encoding a junctional plaque protein, 51:187-194

Planaria

Pascolini R, Di Rosa I, Fagotti A, Panara F, Gabbiani G

The mammalian anti- α -smooth muscle actin monoclonal antibody recognizes an α -actin-like protein in planaria (*Dugesia lugubris* s.l.), 51:177-186

Plasminogen activators

Snyder RW, Lenburg ME, Seebaum AT, Grabel LB

Disruption of the cytoskeleton-extracellular matrix linkage promotes the accumulation of plasminogen activators in F9 derived parietal endoderm, 50:153-162

Prestalk cells

Gaskell MJ, Jermyn KA, Watts DJ, Treffry T, Williams JG

Immuno-localization and separation of multiple prestalk cell types in *Dictyostelium*, 51:171-176

Proacrosin

Escalier D, Bermúdez D, Gallo J-M, Viellefond A, Schrével J

Cytoplasmic events in human meiotic arrest as revealed by immunolabelling of spermatocyte proacrosin, 51:233-243

Progenitor cell

Ueo H, Bury MA, Bruce SA

Gestation stage-specific frequency of adipogenic cells in Syrian hamster cell cultures, 51:113-119

Programmed cell death

Coelho CND, Sumoy L, Kosher RA, Upholt WB

GHOx-7: A chicken homeobox-containing gene expressed in a fashion consistent with a role in patterning events during embryonic chick limb development, 49:85-92

Proliferation

Hohn H-P, Parker CR Jr, Boots LR, Denker H-W, Höök M

Modulation of differentiation markers in human choriocarcinoma cells by extracellular matrix: on the role of a three-dimensional matrix structure, 51:61-70

Kurzik-Dumke U, Phannavong B, Gundacker D, Gateff E

Genetic, cytogenetic and developmental analysis of the *Drosophila melanogaster* tumor suppressor gene *lethal(2) tumorous imaginal discs (l(2)tid)*, 51:91-104

Wiens DJ, Mann K, Fedderson DE, Kimryn Rathmell W, Franck BH

Early heart development in the chick embryo: effects of isotretinoin on cell proliferation, α -actin synthesis, and development of contractions, 51:105-112

Proliferation arrest

Mitchell LS, Neill RA, Birnie GD

Temporal relationships between induced changes in *c-myc* mRNA abundance, proliferation, and differentiation in HL60 cells, 49:119-125

Prosolin

Schubart UK, Xu J, Fan W, Cheng G, Goldstein H, Alpini G, Shafritz DA, Amat JA, Farooq M, Norton WT, Owen TA, Lian JB, Stein GS

Widespread differentiation stage-specific expression of the gene encoding phosphoprotein p19 (metablastin) in mammalian cells, 51:21-32

Protein kinase C

Hardy SJ, Haylock DN, Lopez AF, Murray AW

Examination of the role of the proteolytically-activated form of protein kinase C in the differentiation of human haemopoietic cells, 50:189-202

Proteolysis

Hardy SJ, Haylock DN, Lopez AF, Murray AW

Examination of the role of the proteolytically-activated form of protein kinase C in the differentiation of human haemopoietic cells, 50:189-202

Proto-oncogenes

Takeda H, Yoshiki A, Nishikawa S-I, Nishikawa S, Kunisada T, Sakakura T, Ananuma H, Kusakabe M

Expression of *c-kit*, a proto-oncogene of the murine *W* locus, in cerebellum of normal and neurological mutant mice: Immunohistochemical and *in situ* hybridization analysis, 51:121-127

Pseudopodia

Alexander S, Sydow LM, Wessels D, Soll DR

Discoidin proteins of *Dictyostelium* are necessary for normal cytoskeletal organization and cellular morphology during aggregation, 51:149-161

Quail embryos

Frémont PH, Crossin F, Renaud D, Fonaine-Pérus J

In vitro regulation of the innervation pattern of quail muscle fibres by quail and mouse neurons, 49:17-26

Rabbit

Kloth S, Meyer D, Röckl W, Miettinen A, Aigner J, Schmidbauer A, Minuth WW

Characterization of an endothelial protein in the developing rabbit kidney, 52:79-88

Rana pipiens

Di Berardino MA, Hoffner Orr N

Genomic potential of erythroid and leukocytic cells of *Rana pipiens* analyzed by nuclear transfer into diploid and maturing oocytes, 50:1-13

Rat liver

Glibetić M, Bogojević D, Matić S, Sevaljević L

The expression of liver acute-phase protein genes during rat development and in response to inflammation of the dam, 50:35-40

Rat parotid gland development

Lazowski KW, Mertz PM, Redman RS, Ann DK, Kousvelari E

Reciprocal expression of *c-jun*, proline-rich protein and amylase genes during rat parotid salivary gland development, 51:225-232

Receptor

Gambino M, Kay RR, Bozzaro S

Morphogenesis and differentiation of *Dictyostelium* cells interacting with immobilized glucosides: dependence on DIF production, 49:133-141

Kruyt FAE, Veer LJ van der, Mader S, Brink CE van den, Feijen A, Jonk LJC, Kruijer W, Saag PT van der

Retinoic acid resistance of the variant embryonal carcinoma cell line RAC65 is caused by expression of a truncated RAR α , 49:27-37

Lesot H, Fausser JL, Akiyama SK, Staub A, Black D, Kubler M-D, Ruch JV

The carboxy-terminal extension of the collagen binding domain of fibronectin mediates interaction with a 165 kDa membrane protein involved in odontoblast differentiation, 49:109-118

Mitsiadis TA, Dicou E, Joffre A, Magloire H

Immunohistochemical localization of nerve growth factor (NGF) and NGF receptor (NGF-R) in the developing first molar tooth of the rat, 49:47-61

Wan Y-JY, Wu T-CJ

The effects of retinoic acid on the expression of α -fetoprotein and albumin genes in rat hepatoma cell lines, 50:107-111

Wu T-CJ, Wang L, Wan Y-JY

Retinoic acid regulates gene expression of retinoic acid receptors α , β and γ in F9 mouse teratocarcinoma cells, 51:219-224

Regeneration

Druger RK, Levine EM, Glasgow E, Jones PS, Schechter N

Cloning of a type I keratin from goldfish optic nerve: differential expression of keratins during regeneration, 52:33-43

Pascolini R, Di Rosa I, Fagotti A, Panara F, Gabbiani G

The mammalian anti- α -smooth muscle actin monoclonal antibody recognizes an α -actin-like protein in planaria (*Dugesia lugubris* s.l.), 51:177-186

Santamaría JA, Mari-Beffa M, Becerra J

Interactions of the lepidotrichial matrix components during tail fin regeneration in teleosts, 49:143-150

Retina

Dollé P, Price M, Duboule D

Expression of the murine *Dlx-1* homeobox gene during facial, ocular and limb development, 49:93-99

Retinoic acid

Doye V, Kellermann O, Buc-Carpon M-H, Sobel A

High expression of stathmin in multipotential teratocarcinoma and normal embryonic cells versus their early differentiated derivatives, 50:89-96

Magnaldo T, Bernerd F, Asselineau D, Darmon M

Expression of loricrin is negatively controlled by retinoic acid in human epidermis reconstructed in vitro, 49:39-46

Pruitt SC, Natoli TA

Inhibition of differentiation by leukemia inhibitory factor distinguishes two induction pathways in P19 embryonal carcinoma cells, 50:57-65

Safaei R, Prochazka V, Detmer K, Boncinelli E, Lawrence HJ, Largman C

Modulation of HOX2 gene expression following differentiation of neuronal cell lines, 51:39-47

Sakai A, Langille RM

Differential and stage dependent effects of retinoic acid on chondrogenesis and synthesis of extracellular matrix macromolecules in chick craniofacial mesenchyme in vitro, 52:19-32

Stahl J, Wobus AM, Ihrig S, Lutsch G, Bielka H

The small heat shock protein hsp25 is accumulated in P19 embryonal carcinoma cells and embryonic stem cells of line BLC6 during differentiation, 51:33-37

Wan Y-JY, Wu T-CJ

The effects of retinoic acid on the expression of α -fetoprotein and albumin genes in rat hepatoma cell lines, 50:107-111

Wu T-CJ, Wang L, Wan Y-JY

Retinoic acid regulates gene expression of retinoic acid receptors α , β and γ in F9 mouse teratocarcinoma cells, 51:219-224

Retinoic acid receptor

Kruyt FAE, Veer LJ van der, Mader S, Brink CE van den, Feijen A, Jonk LJC, Kruijer W, Saag PT van der

Retinoic acid resistance of the variant embryonal carcinoma cell line RAC65 is caused by expression of a truncated RAR α , 49:27-37

Wan Y-JY, Wu T-CJ

The effects of retinoic acid on the expression of α -fetoprotein and albumin genes in rat hepatoma cell lines, 50:107–111

Wu T-CJ, Wang L, Wan Y-JY

Retinoic acid regulates gene expression of retinoic acid receptors α , β and γ in F9 mouse teratocarcinoma cells, 51:219–224

Retinoic acid resistance

Kruyt FAE, Veer LJ van der, Mader S, Brink CE van den, Feijen A, Jonk LJC, Kruijer W, Saag PT van der

Retinoic acid resistance of the variant embryonal carcinoma cell line RAC65 is caused by expression of a truncated RAR α , 49:27–37

Retinoids

Wiens DJ, Mann K, Fedderson DE, Kimryn Rathmell W, Franck BH

Early heart development in the chick embryo: effects of isotretinoin on cell proliferation, α -actin synthesis, and development of contractions, 51:105–112

Sea urchin embryos

Romancino DP, Ghersi G, Montana G, Bonura A, Perriera S, Di Carlo M

Characterization of bep1 and bep4 antigens involved in cell interactions during *Paracentrotus lividus* development, 50:67–74

Secreted proteins

Okano H, Hayashi S, Tanimura T, Sawamoto K, Yoshikawa S, Watanabe J, Iwasaki M, Hirose S, Mikoshiba K, Montell C

Regulation of *Drosophila* neural development by a putative secreted protein, 52:1–11

Secretory proteins

Carrère J, Figarella-Branger D, Senegas-Balas F, Figarella C, Guy-Crotte O

Immunohistochemical study of secretory proteins in the developing human exocrine pancreas, 51:55–60

Senescence

Ueo H, Bury MA, Bruce SA

Gestation stage-specific frequency of adipogenic cells in Syrian hamster cell cultures, 51:113–119

Sexual cell fusion

Aiba K, Urushihara H, Yanagisawa K

Fusion-inhibiting monoclonal antibodies and their relevant antigens in relation to sexual process of *Dictyostelium discoideum*, 49:63–68

Sinus vagina

Boutin EL, Battle E, Cunha GR

The germ layer origin of mouse vaginal epithelium restricts its responsiveness to mesenchymal inducers: uterine induction, 49:101–107

Skeletal matrix

Santamaría JA, Mari-Beffa M, Becerra J

Interactions of the lepidotrichial matrix components during tail fin regeneration in teleosts, 49:143–150

Slime molds

Aiba K, Urushihara H, Yanagisawa K

Fusion-inhibiting monoclonal antibodies and their relevant antigens in relation to sexual process of *Dictyostelium discoideum*, 49:63–68

Akiyama M, Maeda Y

Possible involvements of 101 kDa, 90 kDa, and 32 kDa phospho-

proteins in the phase-shift of *Dictyostelium* cells from growth to differentiation, 51:79–90

Alexander S, Sydow LM, Wessels D, Soll DR

Discoidin proteins of *Dictyostelium* are necessary for normal cytoskeletal organization and cellular morphology during aggregation, 51:149–161

Gambino M, Kay RR, Bozzaro S

Morphogenesis and differentiation of *Dictyostelium* cells interacting with immobilized glucosides: dependence on DIF production, 49:133–141

Gaskell MJ, Jermyn KA, Watts DJ, Treffry T, Williams JG

Immuno-localization and separation of multiple prestalk cell types in *Dictyostelium*, 51:171–176

Kubohara Y, Okamoto K

Developmental characterization of the wheat germ agglutinin binding proteins, wst31 and wst34, enriched in prestalk and stalk cells of *Dictyostelium discoideum*, 51:163–169

So J-S, Weeks G

The effects of presumptive morphogens on prestalk and prespore cell gene expression in monolayers of *Dictyostelium discoideum*, 51:73–78

Suzuki T, Amagai A, Maeda Y

Cyclic AMP and Ca^{2+} as regulators of zygote formation in the cellular slime mold *Dictyostelium mucoroides*, 49:127–132

Southern

Armbruster L, Cavard C, Briand P, Bertolotti R

Selection of variant hepatoma cells in liver-specific growth media: regulation at the mRNA level, 50:25–33

Spermatocyte

Escalier D, Bermúdez D, Gallo J-M, Viellefond A, Schrével J

Cytoplasmic events in human meiotic arrest as revealed by immunolabelling of spermatocyte proacrosin, 51:233–243

Spermatogenesis (human)

Escalier D, Bermúdez D, Gallo J-M, Viellefond A, Schrével J

Cytoplasmic events in human meiotic arrest as revealed by immunolabelling of spermatocyte proacrosin, 51:233–243

Spermatogenesis (rodents)

Jagiello GM, Mesa-Tejada R, Fang J-S, Ducayen-Knowles MB

Patterns of immunocytochemically detected Z-DNA in the recrudescing testicular epithelium of the Turkish hamster (*Mesocricetus brandti*), 50:125–131

Smith A, Benavente R

Identification of a short nuclear lamin protein selectively expressed during meiotic stages of rat spermatogenesis, 52:55–60

Spinal cord

Joly J-S, Maury M, Joly C, Duprey P, Boulekbache H, Condamine H

Expression of a zebrafish *caudal* homeobox gene correlates with the establishment of posterior cell lineages at gastrulation, 50:75–87

Stage related effects

Sakai A, Langille RM

Differential and stage dependent effects of retinoic acid on chondrogenesis and synthesis of extracellular matrix macromolecules in chick craniofacial mesenchyme in vitro, 52:19–32

Stalk differentiation

Kubohara Y, Okamoto K

Developmental characterization of the wheat germ agglutinin binding proteins, wst31 and wst34, enriched in prestalk and stalk cells of *Dictyostelium discoideum*, 51:163–169

Stathmin

Doye V, Kellermann O, Buc-Caron M-H, Sobel A

High expression of stathmin in multipotential teratocarcinoma and normal embryonic cells versus their early differentiated derivatives, 50:89-96

Schubert UK, Xu J, Fan W, Cheng G, Goldstein H, Alpini G, Shafritz DA, Amat JA, Farooq M, Norton WT, Owen TA, Lian JB, Stein GS

Widespread differentiation stage-specific expression of the gene encoding phosphoprotein p19 (metablastin) in mammalian cells, 51:21-32

Stem cell

Ueo H, Bury MA, Bruce SA

Gestation stage-specific frequency of adipogenic cells in Syrian hamster cell cultures, 51:113-119

Strawberry

Okano H, Hayashi S, Tanimura T, Sawamoto K, Yoshikawa S, Watanabe J, Iwasaki M, Hirose S, Mikoshiba K, Montell C
Regulation of *Drosophila* neural development by a putative secreted protein, 52:1-11

Syndecan

Vainio S, Thesleff I

Sequential induction of syndecan, tenascin and cell proliferation associated with mesenchymal cell condensation during early tooth development, 50:97-105

Syrian hamster

Hendry III WJ, Branham WS, Sheehan DM

The hamster cheek pouch as a convenient ectopic site for studies of uterine morphogenesis and endocrine responsiveness, 51:49-54

Ueo H, Bury MA, Bruce SA

Gestation stage-specific frequency of adipogenic cells in Syrian hamster cell cultures, 51:113-119

Teleosts

Santamaría JA, Mari-Beffa M, Becerra J

Interactions of the lepidotrichial matrix components during tail fin regeneration in teleosts, 49:143-150

Temperature

Desvages G, Pieau C

Time required for temperature-induced changes in gonadal aromatase activity and related gonadal structure in turtle embryos, 52:13-18

Tenascin

Klatt KP, Yang EV, Tassava RA

Monoclonal antibody MT2 identifies an extracellular matrix glycoprotein that is co-localized with tenascin during adult newt limb regeneration, 50:133-140

Vainio S, Thesleff I

Sequential induction of syndecan, tenascin and cell proliferation associated with mesenchymal cell condensation during early tooth development, 50:97-105

Teratocarcinoma

Wu T-CJ, Wang L, Wan Y-JY

Retinoic acid regulates gene expression of retinoic acid receptors α , β and γ in F9 mouse teratocarcinoma cells, 51:219-224

Terminal differentiation

Collin C, Ouhayoun J-P, Grund C, Franke WW

Suprabasal marker proteins distinguishing keratinizing squamous epithelia: Cytokeratin 2 polypeptides of oral masticatory epithelium and epidermis are different, 51:137-148

Testicular regression

Jagiello GM, Mesa-Tejada R, Fang J-S, Ducayen-Knowles MB

Patterns of immunocytochemically detected Z-DNA in the regressing testicular epithelium of the Turkish hamster (*Mesocricetus brandti*), 50:125-131

Testis

Fröjdman K, Paranko J, Virtanen I, Pelliniemi LJ

Intermediate filaments and epithelial differentiation of male rat embryonic gonad, 50:113-123

Jagiello GM, Mesa-Tejada R, Fang J-S, Ducayen-Knowles MB

Patterns of immunocytochemically detected Z-DNA in the regressing testicular epithelium of the Turkish hamster (*Mesocricetus brandti*), 50:125-131

Thyroid hormone

Shimizu-Nishikawa K, Miller L

Hormonal regulation of adult type keratin gene expression in larval epidermal cells of the frog *Xenopus laevis*, 49:77-83

Tooth development

Dolle P, Price M, Duboule D

Expression of the murine *Dlx-1* homeobox gene during facial, ocular and limb development, 49:93-99

Lesot H, Fausser JL, Akiyama SK, Staub A, Black D, Kubler M-D, Ruch JV

The carboxy-terminal extension of the collagen binding domain of fibronectin mediates interaction with a 165 kDa membrane protein involved in odontoblast differentiation, 49:109-118

Mitsiadis TA, Dicou E, Joffre A, Magloire H

Immunohistochemical localization of nerve growth factor (NGF) and NGF receptor (NGF-R) in the developing first molar tooth of the rat, 49:47-61

Vainio S, Thesleff I

Sequential induction of syndecan, tenascin and cell proliferation associated with mesenchymal cell condensation during early tooth development, 50:97-105

Transforming growth factor β

Gehris AL, Greene RM

Regulation of murine embryonic epithelial cell differentiation by transforming growth factors β , 49:167-173

Transglutaminase

Kvedar JC, Manabe M, Phillips SB, Ross BS, Baden HP

Characterization of scilinin, a precursor to the cornified envelope of human keratinocytes, 49:195-204

Transposons

Kruyt FAE, Veer LJ van der, Mader S, Brink CE van den, Feijen A, Jonk LJC, Kruijzer W, Saag PT van der

Retinoic acid resistance of the variant embryonal carcinoma cell line RAC65 is caused by expression of a truncated RAR α , 49:27-37

Trophoblast

Brown JG, Papaioannou VE

Distribution of hyaluronan in the mouse endometrium during the periimplantation period of pregnancy, 52:61-68

Donaldson WL, Oriol JC, Plavin A, Antczak DF

Developmental regulation of class I major histocompatibility complex antigen expression by equine trophoblastic cells, 52:69-78

Hohn H-P, Parker CR Jr, Boots LR, Denker H-W, Höök M

Modulation of differentiation markers in human choriocarcinoma cells by extracellular matrix: on the role of a three-dimensional matrix structure, 51:61-70

Tubulins

Bieker JJ, Yazdani-Buicky M

The multiple β -tubulin genes of *Xenopus*: Isolation and developmental expression of a germ-cell isotype β -tubulin gene, 50:15-23

Tumor invasion

Fabra A, Nakajima M, Bucana CD, Fidler IJ

Modulation of the invasive phenotype of human colon carcinoma cells by organ specific fibroblasts of nude mice, 52:101-110

Tumor suppressor genes

Kurzik-Dumke U, Phannavong B, Gundacker D, Gateff E

Genetic, cytogenetic and developmental analysis of the *Drosophila melanogaster* tumor suppressor gene *lethal(2)tumorous imaginal discs (L(2)tid)*, 51:91-104

Tunicamycin

Winning RS, Bols NC, Wooden SK, Lee AS, Heikkila JJ

Analysis of the expression of a glucose-regulated protein (GRP78) promoter/CAT fusion gene during early *Xenopus laevis* development, 49:1-6

Turkish hamster

Jagiello GM, Mesa-Tejada R, Fang J-S, Ducayen-Knowles MB

Patterns of immunocytochemically detected Z-DNA in the recrudescing testicular epithelium of the Turkish hamster (*Mesocricetus brandti*), 50:125-131

Turtle embryos

Desvages G, Pieau C

Time required for temperature-induced changes in gonadal aromatase activity and related gonadal structure in turtle embryos, 52:13-18

Uterine morphogenesis

Hendry III WJ, Branham WS, Sheehan DM

The hamster cheek pouch as a convenient ectopic site for studies of uterine morphogenesis and endocrine responsiveness, 51:49-54

Uterus

Boutin EL, Battle E, Cunha GR

The germ layer origin of mouse vaginal epithelium restricts its responsiveness to mesenchymal inducers: uterine induction, 49:101-107

Brown JG, Papaioannou VE

Distribution of hyaluronan in the mouse endometrium during the periimplantation period of pregnancy, 52:61-68

Hendry III WJ, Branham WS, Sheehan DM

The hamster cheek pouch as a convenient ectopic site for studies of uterine morphogenesis and endocrine responsiveness, 51:49-54

Vascular development

Bochaton-Piallat ML, Gabbiani F, Ropraz P, Gabbiani G

Cultured aortic smooth muscle cells from newborn and adult rats show distinct cytoskeletal features, 49:175-185

Vimentin

Fröjdman K, Paranko J, Virtanen I, Pelliniemi LJ

Intermediate filaments and epithelial differentiation of male rat embryonic gonad, 50:113-123

Visceral and parietal endoderm

Braunhut SJ, D'Amore PA, Gudas LJ

The location and expression of fibroblast growth factor (FGF) in F9 visceral and parietal embryonic cells after retinoic acid-induced differentiation, 50:141-152

Snyder RW, Lenburg ME, Seebaum AT, Grabel LB

Disruption of the cytoskeleton-extracellular matrix linkage promotes the accumulation of plasminogen activators in F9 derived parietal endoderm, 50:153-162

Vitamin D₃

Wu JCY, Smith, MW, Lawson DEM

Time dependency of 1,25(OH)₂D₃ induction of calbindin mRNA and calbindin expression in chick enterocytes during their differentiation along the crypt-villus axis, 51:195-200

Wheat germ agglutinin

Kubohara Y, Okamoto K

Developmental characterization of the wheat germ agglutinin binding proteins, wst31 and wst34, enriched in prestalk and stalk cells of *Dictyostelium discoideum*, 51:163-169

Xenopus

Bieker JJ, Yazdani-Buicky M

The multiple β -tubulin genes of *Xenopus*: Isolation and developmental expression of a germ-cell isotype β -tubulin gene, 50:15-23

Fouquet B, Zimbelmann R, Franke WW

Identification of plakoglobin in oocytes and early embryos of *Xenopus laevis*: maternal expression of a gene encoding a junctional plaque protein, 51:187-194

Shimizu-Nishikawa K, Miller L

Hormonal regulation of adult type keratin gene expression in larval epidermal cells of the frog *Xenopus laevis*, 49:77-83

Winning RS, Bols NC, Wooden SK, Lee AS, Heikkila JJ

Analysis of the expression of a glucose-regulated protein (GRP78) promoter/CAT fusion gene during early *Xenopus laevis* development, 49:1-6

Z-DNA immunoreactivity

Jagiello GM, Mesa-Tejada R, Fang J-S, Ducayen-Knowles MB

Patterns of immunocytochemically detected Z-DNA in the recrudescing testicular epithelium of the Turkish hamster (*Mesocricetus brandti*), 50:125-131

Zebrafish

Joly J-S, Maury M, Joly C, Duprey P, Boulekbache H, Condamine H

Expression of a zebrafish *caudal* homeobox gene correlates with the establishment of posterior cell lineages at gastrulation, 50:75-87

Zygote formation

Suzuki T, Amagai A, Maeda Y

Cyclic AMP and Ca²⁺ as regulators of zygote formation in the cellular slime mold *Dictyostelium mucoroides*, 49:127-132

